

CENTRAL INTELLIGENCE AGENCY

25X1

DATE DISTR. 19 Mar 1953

NO. OF PAGES 2

NO. OF ENCLS.
(LISTED BELOW)

SUPPLEMENT TO
REPORT NO.

THIS IS UNEVALUATED INFORMATION

THIS DOCUMENT CONTAINS INFORMATION AFFECTING THE NATIONAL DEFENSE OF THE UNITED STATES, WITHIN THE MEANING OF TITLE 18, SECTIONS 793 AND 794, OF THE U.S. CODE, AS AMENDED. ITS TRANSMISSION BY REVELATION OF ITS CONTENTS IN OR EXCEPT BY AN UNAUTHORIZED PERSON IS PROHIBITED BY LAW. THE REPRODUCTION OF THIS FORM IS PROHIBITED.

- 25X1

$$\begin{array}{l} 25 \times 1 \\ 25 \times 1 \\ 25 \times \bar{1} \end{array}$$

25X1
25X1

25X1

25X1

CONFIDENTIAL

25X1

- 2 -

8.

The only consistent thing in the educational system [redacted] was the constant change of procedures. Classes were conducted by the bloc method, and to take geography, for example, four students would be assigned to geography of the US, four to geography of Belgium, four to geography of France, etc. Examinations were given for the group as a whole rather than individually, and all four collaborated on the answers and received the same credit. The authorities felt that under this system one out of four might actually learn something. The four specializing on the US then lectured to the other groups on the US and after such a lecture all students were experts on the US, as well as every other area on which they heard a lecture.

25X1

9.

[redacted] first year [redacted] my class hours were from 8:00 am to 4:00 pm six days per week. It was obligatory that students attend all classes. They were not permitted to cut anything. Courses offered during the first year included drafting, physics, inorganic chemistry up to quantitative and qualitative analysis, integral calculus, resistance of materials, including the static, dynamic and kinetic, solid geometry, political economy, elementary metallurgy, theoretical mechanics, and either German or English.

25X1

10.

During the second year [redacted] course included differential calculus, organic chemistry, advanced drafting, advanced resistance of materials, advanced theoretical mechanics, advanced metallurgy, as well as the second year of German or English.

25X1

11.

In addition to the classroom there were also practical work assignments such as two months of foundry work, two months in forgings, and two months in woodworking and welding in various factories in Rostov. Several weeks were spent in blast furnace operations in Makeyevka, and several weeks in assembly work at the combine factory in Zaporozhe.

12.

In the third year, [redacted] thermo-dynamics, stress analysis, strain projects concerning bridges, beams, etc, combustion of industrial ovens including drawings, resistance of materials featuring resistance of gears and blocks, theory of solutions, hydraulics including liquids, air and gas, economic geography, time and motion study, agricultural machinery including tractors, plows, combines, etc, internal combustion engines and welding.

25X1

13.

In addition to the classroom activities [redacted] shop practice in machine shops, working on drills, presses, turret lathes, etc.

25X1

14.

In the fourth year [redacted] specialization [redacted] practice and operations of the cupola, conveyors, control and inspection in foundries, use of different kinds of sands, production planning and control, plant capacity, ventilation, sanitation, and micrography.

25X1

25X1

25X1

15.

The fifth year was spent working as a junior metallurgical engineer in the Zis automobile plant in Moscow, and on a thesis re foundry production of 80 tons of castings per day. This project included drawing the complete lay-out of a foundry and included such items as specifying the number of core boxes involved, the number of patterns, the number of machines, etc.

16.

Every two weeks the progress of the thesis was checked with an assigned consultant. When the project was completed the student went before a Commission composed of professors and industry representatives. In addition to submission of the written thesis the student was required to make an oral explanation of the entire project and to submit to questions on the part of the Commission.

17.

After interrogation by the Commission, the student received his grade, and if he passed, he received a diploma.

CONFIDENTIAL

25X1

-3-

CONFIDENTIAL [REDACTED]

25X1

18. In spite of the apparently thorough education extended, actually the education [REDACTED] was rather superficial, although it may have improved in the interim. [REDACTED] we received little more than a smattering of education in the fields described. 25X1
25X1
19. [REDACTED] study of languages [REDACTED] consisted of furnishing [REDACTED] the ability to read catalogues in English or German, and to use a dictionary. We were trained to be able to read technical data, and there was no concern about [REDACTED] ability to conduct a conversation in the language, nor was there any worry about [REDACTED] pronunciation. [REDACTED] a strictly functional training in the particular language concerned. 25X1
25X1
20. [REDACTED] studied many catalogues of foundry equipment, mostly German, and US. Catalogues of US equipment such as Simpson, and Osborne, were translated into Russian. 25X1
21. [REDACTED] text books were 95-100% in the Russian language, and 90% of the text books were prepared by Russian authors. The balance were prepared by German authors. 25X1
22. In spite of the many shortcomings of the educational system in the USSR, in general students acquired a good working knowledge of the particular field to which they had been assigned. They had no freedom of choice as far as education is concerned, and at the end of the five years in the Industrial Engineering School, of the original group of several hundred students [REDACTED] only 15 were left. The authorities felt that they had received enough education in their particular fields at various stages of their training, and assigned them to jobs. 25X1

-end-

CONFIDENTIAL [REDACTED]

25X1